

## CLAIMS

1. A multimer protein molecule comprising at least a first amino acid sequence having substantially the sequence of one of the *Parietaria judaica* major allergens Par j 1 or Par j 2 and a second amino acid sequence having substantially the sequence of one of the *Parietaria judaica* major allergens Par j 1 or Par j 2.
2. The multimer protein molecule according to Claim 1 further comprising at least a third sequence of one of the *Parietaria judaica* major allergens Par j 1 or Par j 2.
3. The multimer protein molecule according to Claim 1 or 2, wherein the sequence of the major allergen Par j 1 is substantially the sequence Seq Id No. 1 and the sequence of the major allergen Par j 2 is substantially the sequence Seq Id No. 3.
4. The multimer protein molecule according to Claim 1 or 2, wherein the sequence of the *Parietaria judaica* major allergen Par j 1 and/or of the major allergen Par j 2 is mutated in the loop 1 amino acid region, substantially comprising from amino acid 1 to 30 of Seq Id No. 1 and/or of Seq Id No. 3.
5. The multimer protein molecule according to Claim 4, wherein the mutated sequence of the major allergen Par j 1 is substantially the sequence Seq Id No. 2.
6. The multimer protein molecule according to Claim 4, wherein the mutated sequence of the major allergen Par j 2 is substantially the sequence Seq Id No. 4.
7. The multimer protein molecule according to Claim 4, wherein the mutated sequence of the major allergen Par j 1 is substantially the sequence Seq Id No. 2 and the mutated sequence of the major allergen Par j 2 is substantially the sequence Seq Id No. 4.
8. A nucleic acid that encodes the multimer protein molecule according to one of the above claims.
9. A recombinant vector for expression in prokaryotic cells comprising, under the control of a suitable transcription promoter system, the nucleic acid according to Claim 8.
10. A recombinant vector for expression in eukaryotic cells comprising, under the control of a suitable transcription promoter system, the nucleic acid according to Claim 8.

11. The multimer protein molecule according to one of claims 1 through 7 for medical use.
12. The multimer protein molecule according to one of claims 1 through 7 for medical use as a hypoallergenic agent.
- 5 13. A pharmaceutical composition comprising an effective and acceptable amount of the multimer protein molecule according to one of claims 1 through 7 and suitable adjuvants and/or diluents.